

IN THE CLAIMS:

1. (Three Times Amended) An essentially purified neurotrophin of carp, carp NT-7 having neurotrophic activity and an amino acid sequence as follows:

Lys Ala Asn Asp Phe Leu His Arg Gly Glu Tyr Ser Val Cys Asp
Ser Glu Glu His Trp Val Gly Asn Leu Thr Gln Ala Thr Asp Leu
Arg Gly Asn Glu Val Thr Val Leu Pro His Val Arg Ile Asn Asn
Val Val Lys Lys Gln Met Phe Tyr Glu Thr Thr Cys Arg Val Ser
Lys Pro Ile Gly Ala Pro Lys Pro Gly Gln Gly Val Ser Gly Val
Lys Ala Gly Thr Ser Ser Cys Arg Gly Ile Asp Asn Glu His Trp
Asn Ser Tyr Cys Thr Asn Val His Thr Phe Val Arg Ala Leu Thr
Ser Tyr Lys Asn Gln Ile Ala Trp Arg Phe Ile Arg Ile Asn Ala
Ala Cys Val Cys Val Leu Ser Arg Asn Ser Trp Arg His (SEQ ID
NO:1) or functional variants, analogues and functional fragments of NT-7.

3. (Twice Amended) A composition comprising an essentially purified neurotrophin of carp, carp NT-7 having neurotrophic activity and an amino acid sequence as follows:

Lys Ala Asn Asp Phe Leu His Arg Gly Glu Tyr Ser Val Cys Asp
Ser Glu Glu His Trp Val Gly Asn Leu Thr Gln Ala Thr Asp Leu
Arg Gly Asn Glu Val Thr Val Leu Pro His Val Arg Ile Asn Asn
Val Val Lys Lys Gln Met Phe Tyr Glu Thr Thr Cys Arg Val Ser
Lys Pro Ile Gly Ala Pro Lys Pro Gly Gln Gly Val Ser Gly Val
Lys Ala Gly Thr Ser Ser Cys Arg Gly Ile Asp Asn Glu His Trp

Asn Ser Tyr Cys Thr Asn Val His Thr Phe Val Arg Ala Leu Thr
Ser Tyr Lys Asn Gln Ile Ala Trp Arg Phe Ile Arg Ile Asn Ala
Ala Cys Val Cys Val Leu Ser Arg Asn Ser Trp Arg His (SEQ ID
NO:1) or functional variants, analogues and functional fragments of NT-7.